

# Morrison Planetarium

## Sky Shows

**Halley's Comet Update** gives the latest information on the most famous comet to ever visit our skies. As Halley's Comet swoops to within 39 million miles of Earth on its way back to the edge of the solar system, Halley's Comet Update will relate the latest findings on this cosmic visitor to planetarium audiences, such as Pioneer Venus's recent discovery that the comet's tail is 20 million miles long - and growing! This is your last chance to learn the current news on Halley's Comet - the show closes April 27 - and the comet doesn't return until 2061!

Sky shows can be seen on weekdays at 2:00 p.m. and weekends and holidays at 1:00, 2:00, 3:00 and 4:00 p.m.

Due to the popularity of the shows, members are asked to be at the planetarium box office at least ten minutes before each performance in order to be assured of getting a seat.

**Exploring the Skies of the Season** offers a look at the current night skies over San Francisco no matter what the weather. This is a perfect chance to "see" Halley's Comet from the City without straining your eyes or catching a chill. Shows are on Saturdays and Sundays at 12 noon.

## Laserium

Laserium is a wonderful experience of light and sound that can be enjoyed by the entire family. Powerful lasers, including a 1-watt krypton gas laser and a 5-watt argon laser, fill the dome of the planetarium with intricate weaving patterns of light moving in harmony with music played in full stereo. Laserium shows are performed to a variety of music ranging from classical to rock.

**Crystal Odyssey** weaves a harmonic aura using the music of Bach, Saint-Saens, Grieg, Mussorgsky and others with lyrical patterns of dancing lasers. Crystal Odyssey is presented on Saturdays and Sundays at 5:00 p.m. Tickets are \$4 for adults and \$3 for seniors and children 6-12.

**Genesis** is a new laser show featuring the music of Grammy Award winner Phil Collins. "Mama," "Carpet Crawlers," "In the Air Tonight," and "Dance on a Volcano" are just a few of the popular hits that are included. Genesis is presented on Thursday through Sunday at 9:00 p.m. with late shows on Friday and Saturday at 10:30 p.m.

**Dark Side of the Moon** features hits from several recent albums by the incomparable Pink Floyd. "Breathe," "Time," "Money," and other hits can be heard in shows on Friday, Saturday and Sunday at 7:30 p.m.

Tickets for Genesis and Dark Side of the Moon are \$5 for adults and \$3 for seniors and children 6-12. Laserium shows are not recommended for children under 6. There are discount prices for groups of ten or more. Members are reminded that their complimentary planetarium passes are not valid for Laserium shows. Tickets are available one-half hour before showtime at the planetarium box office.

You can bring your own FM personal stereo and headset to all Laserium concerts and choose your listening volume.

Show titles are subject to change without notice. For recorded information call (415) 750-7138.

## Planetarium Concert Series

The **Morrison Planetarium's Spring Concert Series** offers programs by acclaimed musicians presented under the starry skies of the planetarium's 65 foot dome.



**Platero**

**April 22**

**8:00 p.m.**

Harpist Sandy Smith and guitarist Jack Montgomery will once again offer their popular program of traditional music of Latin America. Bambucos, Joropos, Huapangos and Malambos will wrap the audience in a festive web of joyous Latin rhythms.

The final performance in the Spring Concert Series will feature:

**The Blue Flame Stringband - May 13**  
Cajun music.

Tickets are \$4 for members and \$6 for non-members. To make reservations send a check payable to the California Academy of Sciences and a self-addressed, stamped envelope to Planetarium Concert Series, California Academy of Sciences, Golden Gate Park, San Francisco, CA 94118. For information call (415) 750-7127.

## Special Exhibits

**Dugald Stermer: Illustrations of Wild Life** opens April 5 featuring highlights of twenty years of work by one of the Bay Area's most prolific artists. While his name may not be familiar to many, his striking illustrations will be quickly recognized from *Time*, *Sierra*, *Mother Jones*, *California*, *California Living* and many other publications. Included in this exhibition will be his finely crafted color illustrations of plants, animals and Homo sapiens including Jerry Garcia of the Grateful Dead. Dugald Stermer: Illustrations of Wild Life can be seen in Lovell-White Hall through June 16.

**The Earth Shook, The Sky Burned**, opening April 16, is an exhibition of historic photographs that document those dark days of the 1906 earthquake and fire that shook San Francisco to its very foundations. Images of the devastation to the City and to the California Academy of Sciences on Market Street are contrasted with vignettes of everyday life continuing, as the homeless cooked meals on cast iron stoves set along the sidewalk. The Earth Shook, The Sky Burned can be seen through May in Cowell Gallery.

*(The Academy will sponsor The Great Quake Chili Cookoff on April 20 to celebrate the hearty spirit of those San Franciscans who rebuilt their lives as they reshaped the City. See the Special Lectures section of this Newsletter for details.)*

**The Far Side of Science** challenges visitors to see nature and science in a new light - using the hilarious world vision of cartoonist Gary Larson. A leeming who rushes to the sea wearing a life preserver, a salmon who uses the steps rather than the fish ladder and hundreds of other cartoons offer a riotously funny, yet scientifically based view of the natural world. The Far Side of Science continues through June 22.

**The Pantanal: Brazil's Wetland Wilderness** explores this lush floodplain through color photographs by Vic Banks. This exhibition in Cowell Gallery closes April 6.

**The Pribilof Islands**, featuring color photographs by Kevin Schafer of the plant and animal life of these remote islands, can be seen through April in Lower Cowell Gallery.

## Young Audiences

This exciting series of professional performing arts programs for children, explores science and cultural anthropology through music, dance and theater. Presented on the last Wednesday and Sunday of each month at the Natural History Museum and Aquarium, the series is made possible by a grant from McKesson Foundation Inc. to Young Audiences of the Bay Area, a non-profit organization sponsoring art programs in local schools.

**Sunday, April 27** **1:00 p.m.**

**Wednesday, April 30\*** **11:00 a.m.**

The **BERKELEY SHAKESPEARE FESTIVAL** presents a lively collage of sonnets, songs, and scenes designed as an introduction to the work of William Shakespeare.



# Special Lectures

## PRIMARILY PRIMATES

### Friends and Foes in Gorilla Society Dr. Alexander Harcourt Dr. Kelly Stewart

April 23 8:00 p.m.

Drs. Harcourt and Stewart will share the results of their gorilla research on what individuals of each sex do to insure that they produce more offspring than their rivals of the same sex. These researchers from Cambridge University studied the same group of gorillas in Rwanda that Dian Fossey used for her life's work.

### The Mother-Child Bond in Chimpanzees Dr. Jane Goodall

April 24 8:00 p.m.

Dr. Goodall will discuss her research on the effects of the unique and enduring mother-child bonds that are created within a chimpanzee troop and the implications of these findings for human nuclear families.

Dr. Goodall's lecture is sponsored by the California Academy of Sciences, the Jane Goodall Institute and the L.S.B. Leakey Foundation.

#### Ticket Order Form Primarily Primates

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ Zip \_\_\_\_\_

Drs. Harcourt and Stewart April 23

\$4 members \_\_\_\_\_ \$5 non-members \_\_\_\_\_

Dr. Goodall April 24

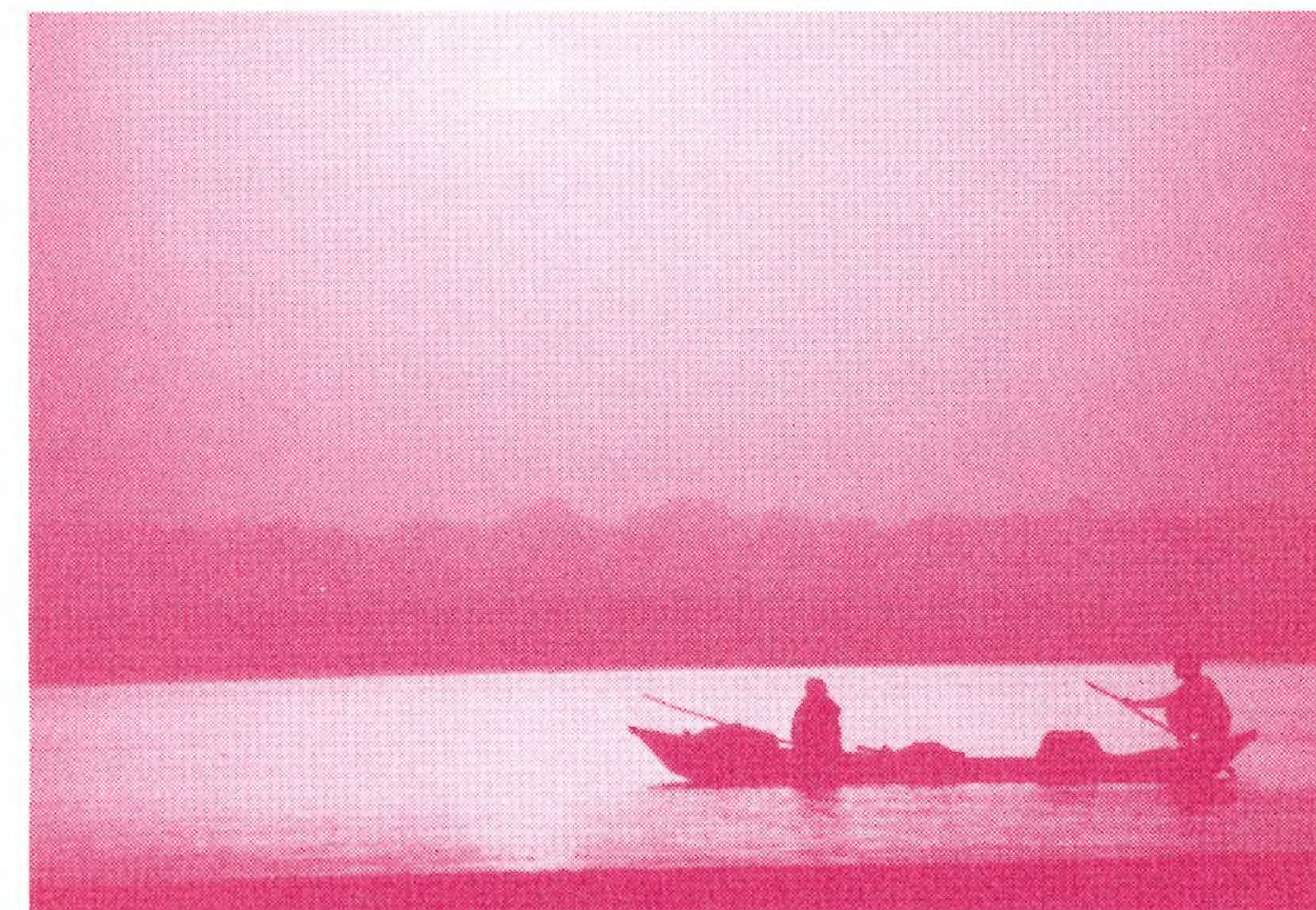
\$4 members \_\_\_\_\_ \$5 non-members \_\_\_\_\_

Please make a *separate check for each lecture* payable to the California Academy of Sciences and send it with a self-addressed, stamped envelope to: Primates, California Academy of Sciences, Golden Gate Park, San Francisco, CA 94118.  
No refunds or exchanges.

## EXPEDITION TRAVEL FORUM

The California Academy of Sciences and Phileas Fogg's Books and Maps for the Traveler present a series of lectures for the discerning traveler and those interested in world affairs. The lectures at the Academy by Dr. Georg Treichel of San Francisco State University will focus on the distinctive character of these fascinating destinations.

Dr. Treichel teaches geography and environmental studies and has done extensive field work in Latin America, the Caribbean, Europe, India, USSR, Australia, Japan and the Pacific Islands. Dr. Treichel has led educational expeditions throughout the world and has received "Outstanding Lecturer" awards from many organizations.



India Monday, April 7  
Morrison Auditorium 7:30 p.m.

Five thousand years of continuous civilization have flourished in this diverse land leaving a legacy of temples, palaces, monuments and artistic masterpieces of unrivaled grandeur. Explore with Dr. Treichel the many wonders of this enduring culture from the rugged, lonely Himalayas to the densely populated Ganges plain and stark deserts of Rajastan.

Future lectures in the series:

The U.S.S.R. May 12  
Brazil June 9

Tickets are \$5 per lecture and will be sold at the door beginning one-half hour before the lecture.

## EARTHQUAKE: 1906 AND NOW

The 1906 Earthquake devastated the city of San Francisco. The California Academy of Sciences on Market Street and its valuable scientific collections were lost to the fire that raged across the City. But as the City regrew, so did the Academy in its new location in Golden Gate Park. To commemorate the 80th anniversary of these new beginnings this series of three lectures will be offered in Morrison Auditorium. Speakers are Dr. Robert Nason, formerly of the Earthquake Research Office of the U.S. Geological Survey, and Richard Hansen, photographer and consultant to the S.F. Fire Department.

### The 1906 Earthquake Richard Hansen

April 22 8:00 p.m.

Richard Hansen will show rare archival footage and slides of the 1906 San Francisco earthquake and describe the events during and after that tragic morning. The film *San Francisco* will be shown after the lecture.

### Are We Overdue for a 1906 Earthquake? Dr. Robert Nason

April 29 8:00 p.m.

Dr. Robert Nason will discuss earthquakes in California, why they occur, the latest techniques for predicting earthquakes and when to expect the next big one.

### Earthquake Preparedness: Focusing on Coalinga and Mexico City Richard Hansen and Dr. Robert Nason May 6 8:00 p.m.

Mr. Hansen and Dr. Nason will discuss what occurred during these two major earthquakes and suggest what can be done to prevent such extensive damage in the future.

Tickets for each lecture are \$3 for members and \$4 for non-members and can be purchased at the door one-half hour before the lecture. Series tickets are \$8 for members, \$10 for non-members and can be purchased at the door or ordered by mail using the following form.

## Ticket Order Form Earthquake: 1906 and Now

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ Zip \_\_\_\_\_

Daytime phone \_\_\_\_\_

Members \$8 series tickets \_\_\_\_\_

Non-members \$10 series tickets \_\_\_\_\_

Send this form and a check payable to the California Academy of Sciences with a self-addressed, stamped envelope to: Earthquake, California Academy of Sciences, Golden Gate Park, San Francisco, CA 94118. No refunds or exchanges.



**The Great Quake Chili Cookoff** will be held in the Central Courtyard of the Natural History Museum and Aquarium, Sunday, April 20. Organized by Uncle Bo, 25 teams will compete in this tasty event. Teams will begin cooking at noon, tasting will begin at 3:00 p.m. Museum visitors can purchase tickets for tasting at turn-of-the-century prices; the team with the most tickets at the end of the day will be declared the People's Choice. For information on team entries, write to Chili Cookoff, California Academy of Sciences, Golden Gate Park, San Francisco, CA 94118; no phone calls please.



# Inside the Academy

**The San Francisco Recreational Symphony** will present a free concert of classical music on Sunday, April 20 at 2:00 p.m. in Wattis Hall of Man.

**The Fourth Annual Photography Contest for Young People** is open to all shutterbugs 18 years and under. The California Academy of Sciences and KRON-TV are again sponsoring this popular competition which last year had more than 1,800 entries. This year the Grand Prize winner will receive \$150 and a ride in Telecopter 4. For more information call (415) 750-7100.

**Help conserve wildlife and habitat**, by checking line 90 on your California State Income Tax return. Your contribution to California's Rare and Endangered Species Preservation Program will go a long way towards protecting the state's endangered wildlife - and your contribution is deductible on your federal tax return.

**Members who have misplaced their membership cards** and need a replacement should send the exact name of the member and the membership category along with a self-addressed, stamped envelope to Membership Coordinator, California Academy of Sciences, Golden Gate Park, San Francisco, CA 94118.

# Adult Education and Travel

It's not too late to sign up for these fascinating and fun Adult Education classes and tours. For information call the Education Office at (415) 750-7100.

**Jasper Ridge: Stanford's Biological Preserve**  
Wednesday, April 23  
9:00 a.m. - 4:00 p.m.  
Cost: \$25 members, \$35 non-members, includes transportation, instruction and refreshments.

Naturalists Buck and Mary Marcussen will lead a two mile hike to enjoy the spectacular wildflowers and large bird population of Jasper Ridge, the only research preserve in the Santa Cruz Mountains.

## The Care and Feeding of Amphibians

April 16-May 14 7-9:00 p.m.  
Cost: \$30 members, \$40 non-members

After spending five Wednesday evenings with biologist Bruce Hiler of the Steinhart Aquarium, you will know the latest techniques for housing and caring for a pet amphibian. Learn everything you need to newt!

## Crustaceans of Northern California

April 22-May 20 7-9:00 p.m.  
Cost: \$35 members, \$40 non-members

Bob Van Syoc of the Invertebrate Zoology Department will use these five evenings to introduce you to the amazing and beautiful adaptations that are found in local crustaceans.

## Academy Expeditions

Plan your 1986 travels now. There are diverse destinations with adventure and education for every traveler. For information call the Academy Travel Office at (415) 750-7222.

## CHESAPEAKE BAY AND THE SMITHSONIAN

September 23-October 4

Join Academy naturalist Dr. Stephen Bailey on a September tour to America's east coast. This tour will focus on the sights of Washington, D.C., the wonderful collections and exhibits of the Smithsonian Institution, concluding with a seven day cruise through scenic Chesapeake Bay.

Special tours and behind-the-scenes views of the Smithsonian have been planned. Highlights will include the reef exhibit and the gems and minerals exhibit at the Museum of Natural History, the Garber facility where restorations are done for the famous Air and Space Museum, the National Gallery, and more. There will also be ample time to explore Washington, D.C. on your own.

The cruise aboard the comfortable *Newport Clipper* will cover the natural history of the

area but will not neglect the other beauties and points of interest such as Annapolis, Yorktown, and Williamsburg.

Costs range from \$2454 to \$2604 including air fare and a tax-deductible donation to the museum. For information call (415)750-7222.

Other 1986 Expeditions include:

## HALLEY'S COMET AND GAME WATCHING IN NAMIBIA AND BOTSWANA

April 4 - 21  
\$3298 land and \$1587 air from New York

## WILDERNESS GRAND CANYON

April 6 - 11  
\$545 plus air fare

## ARIZONA IN THE SPRING: The Sonoran Desert and the Chiricahuas

April 12 - 20  
\$1290 plus \$170 air fare

## ANTIQUITIES AND TALL SHIPS A cruise through the Mediterrean

May 24 - June 8  
\$4945 to \$8445 including air fare

## KENYA ADVENTURE SAFARI

June 4 - 18  
\$1745 land plus \$1400 air fare

## A NATURALIST'S AUSTRALIA

August 14 - September 7  
\$3100 land plus \$1816 air fare

## GRAND CANYON WHITEWATER EXPEDITION

August 17 - 31  
\$1396 plus air fare

## ALASKAN ODYSSEY CRUISE

August 30 - September 11  
\$2810 - \$3990 cruise plus air fare

## JUNGLE RIVERS OF SOUTH AMERICA: The Orinoco and the Amazon

September 30 - October 15  
\$3990 to \$8690 plus \$1220 air fare

## A WILDLIFE SAFARI TO INDIA AND NEPAL

October 28 - November 20  
\$3452 plus \$1805 air fare

## THE YUCATAN:

October 31 - November 16  
\$1895 land plus \$446 air fare

# The Month At A Glance

## APRIL

- 5 **Dugald Stermer Illustrations** opens
- 5 Traditional Arts - Samoan dances
- 6 Last day of **The Pantanal**
- 7 India lecture
- 9 Members' Meeting
- 10 Members' Meeting
- 12 Traditional Arts - Samoan food
- 16 **The Earth Shook, The Sky Burned** opens
- 19 Traditional Arts - Chrysanthemum Ragtime Band
- 20 **Great Quake Chili Cookoff**
- 20 San Francisco Recreation Symphony Orchestra
- 22 1906 Earthquake lecture
- 22 Platero concert in planetarium
- 23 Friends and Foes in Gorilla Society lecture
- 24 Mother-Child Bond in Chimpanzees lecture
- 26 Traditonal Arts - Hebrew songs and foods
- 27 Last day of **Halley's Comet Update**
- 27 Young Audiences - Berkeley Shakespeare Festival
- 29 Are We Overdue for Another 1906 Earthquake? lecture



# April Members' Meetings

## Dates & Times

Matinee, 2:00 p.m., Wednesday,  
April 9  
Evenings, 8:00 p.m., Wednesday and  
Thursday, April 9 and 10

## Place

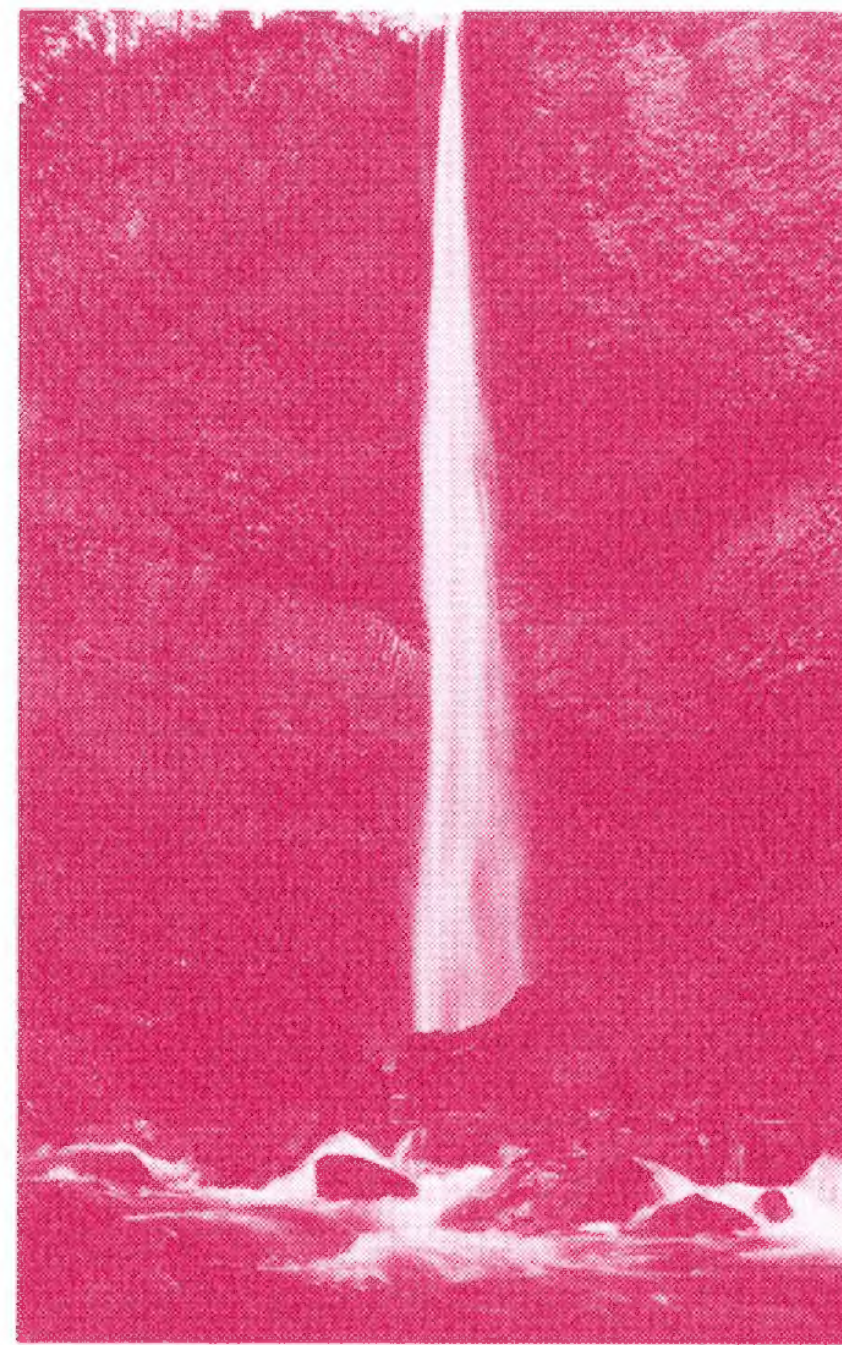
Morrison Auditorium

## Speaker

Ron Cronin

## Subject

The Columbia River Gorge



The Columbia River has cut through the history of our country with the same force and lasting impact with which it carved through the basaltic cliffs that cradle it. Second only to the Mississippi River in volume, its salmon runs were a major trading center for tribes throughout the West, earning it the description "New

York City for prehistoric America." Now it's waters rush through environments that range from desert to rainforest, housing a myriad of wildflowers, birds, animals, including many rare and endemic species.

Ron Cronin, who will introduce the audience to the Columbia Gorge, has spent 19 years photographing the beauty of his native Northwest. His stunning slides will be accompanied by the music of Richard Strauss.

**Sneak Preview:** May 14 from 6:00 p.m. to 10:00 p.m. will be the Annual Open House of the California Academy of Sciences.

# T raditional Arts

**The Phyllis Wattis Traditional Arts Series** reflects the Bay Area's exciting blend of colorful cultures and ethnic groups from around the world. Every Saturday at 1:00 p.m. one group shares some aspect of its cultural heritage with visitors to the Natural History Museum and Aquarium. These free programs in Wattis Hall are funded by a grant from the Paul L. and Phyllis Wattis Foundation.

**April 5** - To the music of guitars and drums, Samoan dancers wearing colorful island costumes perform traditional *sivas* and the popular *sasa* - a clapping dance that imitates the rhythms of daily village life.

**April 12** - Maima Te'o prepares *fa'alifo talo*, a typical Samoan dish made from taro and coconut milk. Samples will be offered for tasting.



**April 19** - Commemorating the 80th anniversary of the San Francisco Earthquake (April 18), the Chrysanthemum Ragtime Band takes us on a musical journey to the early 1900's.

**April 26** - Singer/guitarist Arella Barlev presents a program of Hebrew songs associated with the Jewish Passover (April 24) and also serves customary symbolic foods.

Golden Gate Park  
San Francisco, California 94118-9961  
(415) 221-5100

No. 555  
Time Dated Material

Open every day of the year  
from 10 until 5



California Academy of Sciences

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# NEWSLETTER

April 1986

Non-Profit Organization  
U.S. Postage Paid  
Permit No. 7544  
San Francisco